The True Value of Gold

1. The Parameters

Let c be the average speed of light:

$$c = 300,000,000 \text{ m/s}$$

Let t be the duration of a single nanosecond:

$$t = 1 \times 10^{-9} \text{ s}$$

2. The Mathematical Derivation

The True Value of Gold (V) is defined as the physical distance light travels in this specific timeframe.

$$V = c \times t$$

$$V = (300,000,000 \text{ m/s}) \times (1 \times 10^{-9} \text{ s})$$

From a calculus perspective, if speed (c) were a function of time, the distance V would be the integral of c over the time interval t.

$$V = \int_0^T c(t)\,dt$$

However, as c is a constant in this context, the integral simplifies to the algebraic product:

$$V = \int_0^t c\,d\tau = c \cdot [\tau]_0^t = c \cdot (t - 0) = c \cdot t$$

3. Solution

$$V = 0.3 \text{ meters}$$

Thus, the fundamental unit - the True Value of Gold - is physically equivalent to 30 centimeters.

Decreed by:

Tyson Jay Palmer, Dei Gratia Rex

Peace, always.